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sampling rate for the first set of position error signals, and the means responsive to the passage of the data at the magnetic head generates a second set of error signals at a second sampling rate which is substantially greater than the first sampling rate.

~~16822~~ (Amended) A servo system for positioning a magnetic head relative to a track which is movable relative to the head, the track having a succession of bursts of servo signals therealong and data signals between the bursts of servo signals, comprising the combination of:

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means responsive to the passage of the bursts of servo signals at the magnetic head for generating a first set of error signals;

means responsive to the passage of the data signals at the magnetic head for generating a second set of error signals; and

means responsive to the first and second sets of error signals for applying the position error signals from the first and second sets to correct the position of the magnetic head relative to the track,

wherein the means responsive to the passage of the data signals at the magnetic head generates at least some of the second set of error signals by producing a pair of possible position error signal values in response to each sampling of the data track and processing the pair of possible position error signals values to choose one that best estimates position error of the magnetic head relative to the track.

~~16824~~ (Amended) A servo system for positioning a magnetic head relative to a track which is movable relative to the head, the track having a succession of bursts of servo signals therealong and data signals between the bursts of servo signals, comprising the combination of:

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means responsive to the passage of the bursts of servo signals at the magnetic head for generating a first set of error signals;

means responsive to the passage of the data signals at the magnetic head for generating a second set of error signals; and

means responsive to the first and second sets of error signals for applying the position error signals from the first and second sets to correct the position of the magnetic head relative to the track,

wherein the means responsive to the passage of the data signals at the magnetic head generates each of the second set of error signals by generating a possible error signal during each of a succession of samplings of the data track and observing any changes in sign and absolute value of the possible error signal during the succession of samplings.

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REMARKS:

This is in response to the Office Action dated June 25, 2002 (paper #12). Pursuant to this amendment, claims 1-17 and 19-24 are pending in the present application. Claim 18 is canceled and claims 22 and 24 are rewritten in independent form. Reexamination and reconsideration are respectfully requested.

Applicant proposes to amend FIGS. 1-10 as indicated in red ink on the attached sheets for the Examiner's approval. Should the Examiner approve these amendments, applicant will submit new formal drawings.

The outstanding Office Action allows claims 1-17 and indicates that claims 22-24 present allowable subject matter and would be allowed if rewritten in independent form. Applicant amends claims 22 and 24 to stand in independent form. Applicant submits that amended claims 22 and 24 comply with the Examiner's instructions and are in condition for allowance. Similarly, claims 19-20 and 23, which now depend from allowable claim 22, are in condition for allowance.

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Reexamination and reconsideration of the application, as amended, are requested.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at the Los